A. CLASSIFICATION OF SUBJECT MATTER IPC 7 841J29/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 B41J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-In	ternal, PAJ				
C. DOCUME	NTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with Indication, where appropriate, of the rel	evant passages	Relevant to daim No.		
A	US 5 152 624 A (HAUSLAIB WOLFGANG 6 October 1992 (1992-10-06) column 3, line 46 -column 4, line figure 1 column 4, line 51 - line 66; figu	2;	1-4, 12-17		
A	US 2002/127041 A1 (HUGGINS ORVILL AL) 12 September 2002 (2002-09-12 page 2, left-hand column, paragra figure 5	2)	1,2,8, 13-17		
A	WO 98 17475 A (BERTALAN JOHN ;CAF S (US); ROWE JIMMY R (US); AXIOHN 30 April 1998 (1998-04-30) abstract; figure 2	1,2,7,9, 13-17			
X Furth	er documents are listed in the continuation of box C.	X Patent family members are listed	in annex.		
"A" docume conside "E" earlier of filing de "L" docume which i citation "O" docume other n	nt which may throw doubts on priórity claim(s) or s cited to establish the publication date of another or other special reason (as specified) nt referring to an oral disclosure, use, exhibition or	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 			
Date of the a	ctual completion of the international search	Date of mailing of the international sea	arch report		
2	March 2004	15/03/2004			
Name and m	ailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Adam, E			



Internation pplicas and PCT/FR 03/02933

		PC1/FR 03/02933		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	US 4 881 839 A (GRIMM THOMAS R) 21 November 1989 (1989-11-21) the whole document	1,2, 13-17		
A	US 5 180 232 A (CHADIMA JR GEORGE E ET AL) 19 January 1993 (1993-01-19) column 4, line 3 - line 44; figure 2	1·,2, 13-17		
A	EP 0 813 974 A (SCITEX DIGITAL PRINTING INC) 29 December 1997 (1997-12-29) the whole document	1,2, 13-17		
i				
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,				
i				

Internatio pplication No PCT/FR 03/02933

information on patent family members

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5152624	A	06-10-1992	DE	3934792	A1	25-04-1991
		_	ΑT	103243		15-04-1994
			DE	59005089		28-04-1994
			EP	0423910		24-04-1991
			ĴΡ	3133680		06-06-1991
US 2002127041	A1	12-09-2002	us	2001009627	 Δ1	26-07-2001
== ===mam/VTL		12 03 2002	US	6241407		05-06-2001
			US	2001012467		09-08-2001
			CA	2317102		16-03-2001
			DE	60003502		31-07-2003
			EP	1084851		21-03-2001
			ĒΡ	1264702		11-12-2002
		30-04-1998	 СА	2269061	 Δ1	30-04-1998
NO 301/7/3	7	20 04-1230	EP	1011974		28-06-2000
			WO	9817475		30-04-1998
			WU 	J01/4/5		30-04-1998
US 4881839	A	21-11-1989	NONE			
US 5180232	Α	19-01-1993	BE	1002234		30-10-1990
			CA	1338049		13-02-1996
			CA	1339028		01-04-1997
			ES	2014740		16-07-1990
			GB	2221426	A ,B	07-02-1990
			ΙT	1230308		18-10-1991
			LU	87552	A1	26-10-1989
			CA	1340450		16-03-1999
			US	5488575		30-01-1996
			US	5872354		16-02-1999
			US	5790536		04-08-1998
			US	5617343		01-04-1997
			US	5331580		19-07-1994
			US	5625555		29-04-1997
			US	5834753		10-11-1998
			US	5694318		02-12-1997
			US	5680334		21-10-1997
			US	5726984		10-03-1998
			US	5949056		07-09-1999
			US	5850358		15-12-1998
			US	5914481		22-06-1999
			US	5465207		07-11-1995
			US	5457629		10-10-1995
			US	5928292		27-07-1999
			US	5895431	Α	20-04-1999
EP 0813974	Α	29-12-1997	AU	733378		10-05-2001
			AU	2493397		08-01-1998
,			CA	2207800		18-12-1997
			DE	69719607		17-04-2003
			DE	69719607		12-02-2004
			EP JP	0813974		29-12-1997
				10052910		24-02-1998